



(a) Primer C (SEQ ID NO: 1)

5' GATGAGTTCGTGTCCGTACAACTGG 3'

Primer D (SEQ ID NO: 2)

5' GAATCACGGTATCCGGCTGCGCTGA 3'

(b)

	PCR reaction liquid G	PCR reaction liquid H
TaKaRa La Taq	0. 2 μ L	0. 2 μ L
2 \times GC buffer I	10 μ L	10 μ L
dNTP mixture	3. 2 μ L	3. 2 μ L
Sample liquid A or B	4 μ L (Sample liquid A)	4 μ L (Sample liquid B)
Primer solution E	0. 9 μ L	0. 9 μ L
Primer solution F	0. 9 μ L	0. 9 μ L
Distilled water	0. 8 μ L	0. 8 μ L

(c)

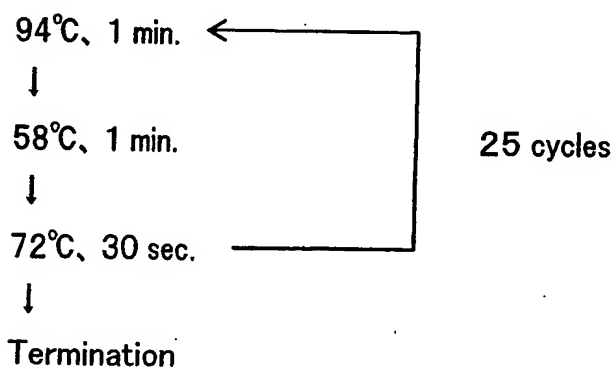


Fig. 14

(a)

- Wild type λ DNA (SEQ ID NO: 3)

5' GATGAGTTTCGTGTCCGTACAAC**TG** 3' R_1
 3' CTACTCAAGCACAGGCATGTTG**AC** 5' R_2

- Mutant λ DNA (SEQ ID NO: 4)

5' GATGAGTTTCGTGTCCGTACAAC**T**A 3'
 3' CTACTCAAGCACAGGCATGTTG**A**T 5'

- Typing primer (SEQ ID NO: 5)

5' GATGAGTTTCGTGTCCGTACAAC**TG** 3'

(b)

	PCR reaction liquid I	PCR reaction liquid J
TaKaRa Taq	0. 1 μ L	0. 1 μ L
10 \times PCR buffer	2 μ L	2 μ L
dNTP mixture	1. 6 μ L	1. 6 μ L
Wild type λ DNA liquid or Mutant λ DNA liquid	2 μ L (Wild type λ DNA liquid)	2 μ L (Mutant λ DNA liquid)
Typing primer solution	0. 9 μ L	0. 9 μ L
Primer solution F	0. 9 μ L	0. 9 μ L
Distilled water	12. 5 μ L	12. 5 μ L

(c)

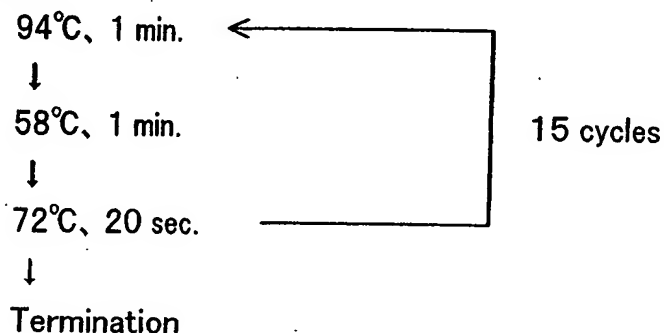
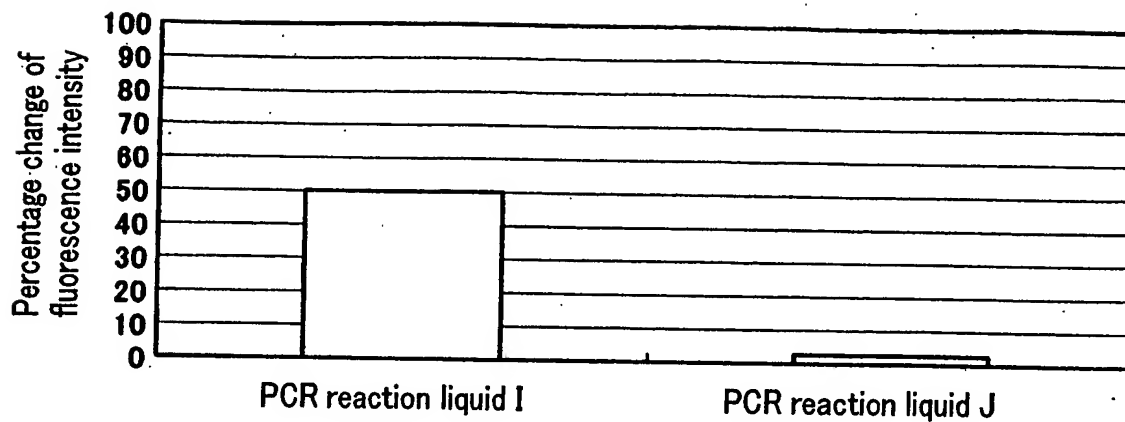


Fig. 16

**Fig. 17**

(a)

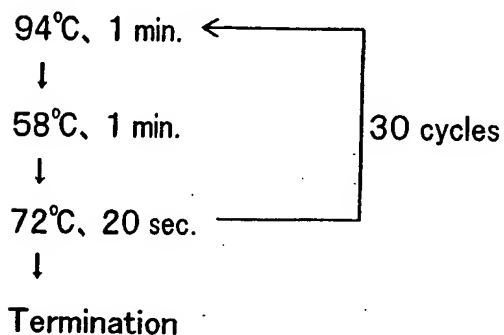
• Primer 3 (SEQ ID NO: 6)

5' GATGAGTTCGTGTCCGTACAACT 3'

(b)

	Extension reaction liquid K	Extension reaction liquid L
T a K a R a T a q	0. 1 μ L	0. 1 μ L
10 \times PCR buffer	2 μ L	2 μ L
dATP solution	1. 6 μ L	1. 6 μ L
Wild type λ DNA liquid or Mutant λ DNA liquid	8 μ L (Wild type λ DNA liquid)	8 μ L (Mutant λ DNA liquid)
Primer solution M	0. 9 μ L	0. 9 μ L
Distilled water	12. 5 μ L	12. 5 μ L

(c)

**Fig. 18**